

AMENDMENTS TO THE CLAIMS

This Listing of Claims will replace all prior versions and listings of claims in this application.

Listing of Claims:

1. (Currently Amended) Inhalation device for creating an aerosol, comprising:

- aerosol means, for creating an aerosol in the device,
- control means, for adjusting the state and condition of the aerosol in order to manipulate the characteristics of the aerosol, ~~such as~~ including its uniformity and or its mean particle size, [[and]]
- an opening, for releasing the aerosol from the device, and
~~characterized in that:~~
- ~~the device is provided with~~ supply means, for adding a substance to the aerosol, prior to or upon release of the aerosol from the opening and after an adjustment of the state and condition of the aerosol by the control means, in order to release the substance from the opening using the aerosol as a carrier.

2. (Previously Presented) Device according to claim 1, wherein the aerosol means comprises a mist generator.

3. (Currently Amended) Device according to claim 1, wherein the aerosol means comprises a catalytic burner, ~~such as a fuel cell~~.

4. (Currently Amended) Device according to ~~one of the preceding claims~~ claim 1, wherein the device comprises an aerosol chamber for creating the aerosol in said chamber:

5. (Currently Amended) Device according to ~~one of the preceding claims~~ claim 1, wherein the control means are adapted to add energy to or remove energy from the aerosol in order to thereby control the particle size of the aerosol.

6. (Currently Amended) Device according to ~~one of the preceding claims~~ claim 1, wherein the control means comprises a condensation chamber.
7. (Previously Presented) Device according to claim 6, wherein the condensation chamber has a first open end to receive a flow and a second open end to release a flow.
8. (Currently Amended) Device according to ~~claim 4 and either claim 6 or 7~~ claim 6 or claim 7, wherein the device comprises an aerosol chamber for creating the aerosol in said chamber, and wherein the condensation chamber adjoins the aerosol chamber.
9. (Currently Amended) Device according to ~~one of the preceding claims~~ claim 1, wherein the control means comprises a heat exchanger provided with apertures for allowing the aerosol to pass through the heat exchanger.
10. (Currently Amended) Device according to ~~one of the claims 6 to 9~~ claim 6 or claim 7, wherein the device comprises a Peltier-element, positioned in the condensation chamber, to retrieve condensation energy.
11. (Currently Amended) Device according to ~~one of the preceding claims~~ claim 1, wherein the control means comprises dilution means for mixing the aerosol with a fluid, such as an unsaturated gas, for thereby decreasing the dew point of the aerosol.
12. (Currently Amended) Device according to ~~one of the preceding claims~~ claim 1, wherein the supply means comprises means for adding a gaseous substance to the aerosol.
13. (Previously Presented) Device according to claim 12, wherein the supply means comprises a container, such as a canister, for storing a gaseous substance.
14. (Currently Amended) Device according to ~~one of the preceding claims~~ claim 1, wherein the supply means comprises means for adding a liquid substance to the aerosol.

15. (Previously Presented) Device according to claim 14, wherein the supply means comprises a membrane pump.

16. (Currently Amended) Device according to ~~one of the preceding claims~~ claim 1, wherein the supply means comprises means for adding a solid substance to the aerosol.

17. (Previously Presented) Device according to claim 14 or 16, wherein the supply means comprises a container for storing a propellant, such as CO₂, and a liquid and/or solid substance.

18. (Currently Amended) Device according to ~~one of the preceding claims~~ claim 1, wherein the device is adapted to be breath actuated.

19. (Currently Amended) Device according to ~~one of the preceding claims~~ claim 1, wherein the device is provided with means for operating the device with a breath support.

20. (Currently Amended) Device according to ~~one of the preceding claims~~ claim 1, wherein the control means are coupled with process means, provided with storage means, for receiving and processing data relating to a preferred state and condition of the aerosol to be released.

21. (Previously Presented) Device according to claim 20 wherein the device is provided with sensor means, coupled with the process means, to measure data relating to the state and condition of the aerosol to be released.

22. (Currently Amended) Device according to ~~one of the preceding claims~~ claim 1, wherein the supply means are coupled with process means, provided with storage means, for receiving and processing data relating to a preferred timing of the adding of the substance to the aerosol.

23. (Previously Presented) Device according to claim 22 wherein the device is provided with sensor means, coupled with the process means, to measure data relating to the timing of the adding of the substance to the aerosol.

24. (Previously Presented) Device according to claim 21 or 23, wherein the sensor means comprise flow measurement means for producing a measure of volume released.

25. (Currently Amended) Method for creating an aerosol in an inhalation device; comprising the steps of:

- a) creating an aerosol by means of aerosol means in the inhalation device,
- b) adjusting the state and condition of the aerosol, in order to manipulate the characteristics of the aerosol, ~~such as~~ including at least its uniformity and /or its mean particle size. ~~[[and]]~~
- c) releasing the aerosol from an opening of the device. and
~~the method being characterized by comprising the step of:~~
- d) adding a substance to the aerosol, prior to or upon release of the aerosol from the device in order to release the substance from the opening using the aerosol as a carrier, wherein step d) is executed after execution of step b).

26. (Previously Presented) Method according to claim 25, wherein the method comprises the steps of:

- e) prior to step b) identifying a preferred state and condition of the aerosol to be released from the device.

27. (Canceled)

28. (Currently Amended) Method according to ~~one of claims 25 to 27~~ claim 25 or 26, wherein step b) is repeated after the completion of step d).

29. (Currently Amended) Method according to claim 25 ~~one of claims 25 to 28~~, wherein the method comprises the steps of:

- f) measuring the actual flow through the device, and
- g) using this measurement in order to control the manipulation of the aerosol in step b).

30. (Currently Amended) Method according to ~~one of claims 25 to 29~~ claim 25, wherein the method comprises the step of:

h) prior to step b) evaluating the heat content of the aerosol in order to thereby determine the specific amount of energy to be added or extracted from the aerosol in order to realise the desired manipulation of the aerosol.

31. (Currently Amended) Method according to ~~one of claims 25 to 30~~ claim 25, wherein the manipulation of the aerosol comprises a condensation step, for allowing condensation of at least part of the gaseous phase of the aerosol.

32. (Previously Presented) Method according to claim 31, wherein the manipulation of the aerosol is adapted to obtain an aerosol with a relative humidity of 100%.

33. (Currently Amended) Method according to ~~one of claims 25 to 32~~ claim 25, wherein the manipulation of the aerosol comprises a dilution step, for mixing the aerosol with a fluid, ~~such as an unsaturated gas~~, for thereby decreasing the dew point of the aerosol.

34. (Currently Amended) Method according to ~~one of claims 26 to 33~~ claim 26, wherein the method comprises the step of:

i) using the results of steps e) and f) to calculate a preferred timing for the adding of the substance to the aerosol.

35. (Currently Amended) Method according to ~~one of claims 25 to 34~~ claim 25, wherein the method comprises the step of creating in step a) an aerosol containing a first substance and adding in step d) a further substance to said aerosol.

36. (New) Method according to claim 33, wherein the fluid comprises an unsaturated gas.